

WHAT IS CLAIMED IS:

1 1. A method for providing stream linking in audio/video disk media,
2 comprising:
3 when additional reading or writing locations in streams are desired, sending a
4 linked stream request with a number of a primary stream;
5 initiating a linked stream that is linked to the primary stream;
6 setting a pointer for the linked stream to the same location as a pointer for the
7 primary stream; and
8 during operation, processing the pointers for both the linked stream and the
9 primary stream.

1 2. The method of claim 1 wherein the setting of a pointer for the linked
2 stream to the same location as a pointer for the primary stream further comprises
3 setting a read audio/video pointer for the linked stream to the same location as the
4 read audio/video pointer of the primary stream.

1 3. The method of claim 1 wherein the linked stream inherits a beginning
2 and ending address from the primary stream.

1 4. The method of claim 1 wherein the linked stream and the primary
2 stream each include a read audio/video pointer and a write audio/video pointer.

1 5. The method of claim 4 wherein a passed pointer warning is set when
2 the linked stream read AV pointer passes the primary stream write AV pointer.

1 6. The method of claim 1 wherein a stream may not be linked to a linked
2 stream.

1 7. The method of claim 1 wherein the linked stream is disabled when the
2 primary stream is disabled.

1 8. The method of claim 1 wherein the linked stream and the primary
2 stream may be read and written to simultaneously.

1 9. The method of claim 1 wherein the linked stream and the primary
2 stream each include a read audio/video pointer and a write audio/video pointer.

1 10. The method of claim 9 wherein the read audio/video pointer points to
2 the next sector to read from and the write audio/video pointer points to the next
3 sector to write to.

1 11. The method of claim 1 further including moving the pointers with a
2 command.

12. A remote multimedia server, comprising:

a mass storage library for storing a plurality of multimedia programs each segmented into at least one audio/video stream;

transmission means for transmitting the at least one audio/video stream to a communication channel; and

a local media control system, comprising:

a direct access storage device including at least one data storage disk;

and

a controller for processing the coordinating writing of the at least one audio/video stream received from the communication channel to the data storage disk, and for coordinating reading of the at least one audio/video stream from the data storage disk, the controller providing stream linking in audio/video disk media by sending a linked stream request with a number of a primary stream when additional reading or writing locations in streams are desired, initiating a linked stream that is linked to the primary stream, setting a pointer for the linked stream to the same location as a pointer for the primary stream, and, during operation, processing the pointers for both the linked stream and the primary stream.

13. The remote multimedia server of claim 12 wherein the setting of a pointer for the linked stream to the same location as a pointer for the primary stream further comprises setting a read audio/video pointer for the linked stream to the same location as the read audio/video pointer of the primary stream.

14. The remote multimedia server of claim 12 wherein the linked stream inherits a beginning and ending address from the primary stream.

1 15. The remote multimedia server of claim 12 wherein the linked stream
2 and the primary stream each include a read audio/video pointer and a write
3 audio/video pointer.

1 16. The remote multimedia server of claim 15 wherein a passed pointer
2 warning is set when the linked stream read AV pointer passes the primary stream
3 write AV pointer.

1 17. The remote multimedia server of claim 12 wherein a stream may not
2 be linked to a linked stream.

1 18. The remote multimedia server of claim 12 wherein the linked stream is
2 disabled when the primary stream is disabled.

1 19. The remote multimedia server of claim 12 wherein the linked stream
2 and the primary stream may be read and written to simultaneously.

1 20. The remote multimedia server of claim 12 wherein the linked stream
2 and the primary stream each include a read audio/video pointer and a write
3 audio/video pointer.

1 21. The remote multimedia server of claim 20 wherein the read
2 audio/video pointer points to the next sector to read from and the write audio/video
3 pointer points to the next sector to write to.

1 22. The remote multimedia server of claim 12 further including moving the
2 pointers with a command.

1 23. A direct access storage device, comprising:
2 at least one data storage disk; and
3 a controller for processing the coordinating writing of the at least one
4 audio/video stream received from the communication channel to the data storage
5 disk, and for coordinating reading of the at least one audio/video stream from the
6 data storage disk, the controller further providing stream linking in audio/video disk
7 media by sending a linked stream request with a number of a primary stream when
8 additional reading or writing locations in streams are desired, initiating a linked
9 stream that is linked to the primary stream, setting a pointer for the linked stream to
10 the same location as a pointer for the primary stream, and, during operation,
11 processing the pointers for both the linked stream and the primary stream.

1 24. The direct access storage device of claim 23 wherein the setting of a
2 pointer for the linked stream to the same location as a pointer for the primary stream
3 further comprises setting a read audio/video pointer for the linked stream to the
4 same location as the read audio/video pointer of the primary stream.

1 25. The direct access storage device of claim 23 wherein the linked stream
2 inherits a beginning and ending address from the primary stream.

1 26. The direct access storage device of claim 23 wherein the linked stream
2 and the primary stream each include a read audio/video pointer and a write
3 audio/video pointer.

1 27. The direct access storage device of claim 26 wherein a passed pointer
2 warning is set when the linked stream read AV pointer passes the primary stream
3 write AV pointer.

1 28. The direct access storage device of claim 23 wherein a stream may
2 not be linked to a linked stream.

1 29. The direct access storage device of claim 23 wherein the linked stream
2 is disabled when the primary stream is disabled.

1 30. The direct access storage device of claim 23 wherein the linked stream
2 and the primary stream may be read and written to simultaneously.

1 31. The direct access storage device of claim 23 wherein the linked stream
2 and the primary stream each include a read audio/video pointer and a write
3 audio/video pointer.

1 32. The direct access storage device of claim 31 wherein the read
2 audio/video pointer points to the next sector to read from and the write audio/video
3 pointer points to the next sector to write to.

1 33. The direct access storage device of claim 23 further including moving
2 the pointers with a command.

1 34. An article of manufacture comprising a program storage medium
2 readable by a computer, the medium tangibly embodying one or more programs of
3 instructions executable by the computer to perform a method for providing stream
4 linking in audio/video disk media, the method comprising:
5 when additional reading or writing locations in streams are desired, sending a
6 linked stream request with a number of a primary stream;
7 initiating a linked stream that is linked to the primary stream;
8 setting a pointer for the linked stream to the same location as a pointer for the
9 primary stream; and
10 during operation, processing the pointers for both the linked stream and the
11 primary stream.

1 35. The article of manufacture of claim 34 wherein the setting of a pointer
2 for the linked stream to the same location as a pointer for the primary stream further
3 comprises setting a read audio/video pointer for the linked stream to the same
4 location as the read audio/video pointer of the primary stream.

1 36. The article of manufacture of claim 34 wherein the linked stream
2 inherits a beginning and ending address from the primary stream.

1 37. The article of manufacture of claim 34 wherein the linked stream and
2 the primary stream each include a read audio/video pointer and a write audio/video
3 pointer.

1 38. The article of manufacture of claim 37 wherein a passed pointer
2 warning is set when the linked stream read AV pointer passes the primary stream
3 write AV pointer.

1 39. The article of manufacture of claim 34 wherein a stream may not be
2 linked to a linked stream.

1 40. The article of manufacture of claim 34 wherein the linked stream is
2 disabled when the primary stream is disabled.

1 41. The article of manufacture of claim 34 wherein the linked stream and
2 the primary stream may be read and written to simultaneously.

1 42. The article of manufacture of claim 34 wherein the linked stream and
2 the primary stream each include a read audio/video pointer and a write audio/video
3 pointer.

1 43. The article of manufacture of claim 42 wherein the read audio/video
2 pointer points to the next sector to read from and the write audio/video pointer points
3 to the next sector to write to.

1 44. The article of manufacture of claim 34 further including moving the
2 pointers with a command.